

Piperidine, 1-ethyl-

Other names:	1-Ethylpiperidene 1-Ethylpiperidine N-Aethylpiperidin N-Ethylpiperidine UN 2386
Inchi:	InChI=1S/C7H15N/c1-2-8-6-4-3-5-7-8/h2-7H2,1H3
InchiKey:	HTLZVHNRZJPSMI-UHFFFAOYSA-N
Formula:	C7H15N
SMILES:	CCN1CCCCC1
Mol. weight [g/mol]:	113.20
CAS:	766-09-6

Physical Properties

Property code	Value	Unit	Source
hvac	39.40 ± 0.70	kJ/mol	NIST Webbook
hvac	40.80 ± 0.60	kJ/mol	NIST Webbook
log10ws	-1.22		Crippen Method
logp	1.492		Crippen Method
mccvol	108.610	ml/mol	McGowan Method
ripol	856.00		NIST Webbook
ripol	850.00		NIST Webbook
ripol	857.00		NIST Webbook
ripol	850.00		NIST Webbook
ripol	852.00		NIST Webbook
ripol	858.00		NIST Webbook
ripol	851.00		NIST Webbook
ripol	851.00		NIST Webbook
ripol	857.00		NIST Webbook
ripol	856.00		NIST Webbook
ripol	1093.00		NIST Webbook
ripol	1075.00		NIST Webbook
ripol	1060.00		NIST Webbook
ripol	1054.00		NIST Webbook
ripol	1022.00		NIST Webbook
ripol	1045.00		NIST Webbook
tb	400.15 ± 3.00	K	NIST Webbook
tb	403.95 ± 0.40	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	41.10 ± 0.60	kJ/mol	293.50	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.43004e+01
Coeff. B	-3.39407e+03
Coeff. C	-5.34480e+01
Temperature range (K), min.	295.66
Temperature range (K), max.	431.03

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C766096&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature

Latest version available from:

<https://www.cheméo.com/cid/41-015-9/Piperidine-1-ethyl.pdf>

Generated by Cheméo on 2024-04-29 11:11:39.31293404 +0000 UTC m=+16678348.233511352.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.